

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

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PATENT NO. : 6,974,682  
APPLICATION NO. : 08/917,710  
ISSUE DATE : December 13, 2005  
INVENTOR(S) : Bednarik et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**On The Cover:**

Under the heading, Abstract, delete the entire paragraph and insert the following paragraph.

--The present invention relates to a novel soluble IL-1 receptor accessory molecule (IL-1R AcM) protein which is a member of the Ig superfamily. In particular, isolated nucleic acid molecules are provided encoding the human IL-1R AcM protein. IL-1R AcM polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. Screening methods are further provided for identifying agonists and antagonists of IL-1 signal transduction. The invention further relates to methods for treating physiologic and pathologic disease conditions with IL-1R AcM antagonists.--;

**Background Of The Invention**

**Col. 1, line 40,** delete "IL-1  $\gamma$ " and insert --IL-1 $\alpha$ --;

**Col. 1, line 41,** delete "IL-1R" and insert --IL-1ra--;

**Col. 1, line 54,** delete "the" and insert --three--;

**Col. 1, line 65,** delete "NF-kB" and insert --NF- $\kappa$ B--;

**Col. 2, line 32,** delete "are";

**Col. 2, line 34,** delete "three" and insert -- there--;

**Col. 2, line 50,** delete "mulL-R" and insert --mulL-1R--;

**Col. 2, line 54,** delete "mu1IL-1R" and insert --mulL-1R-- (both occurrences);

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**Col. 2, line 59,** delete "mullL-1R" and insert --mull-1R--;

**Col. 3, line 35,** delete "Type I IL-1R The" and insert --Type I IL-1R. The--;

**Col. 3, line 36,** delete "mull-1RAcP" and insert -- mull-1R AcP--;

**Summary Of The Invention**

**Col. 3, line 43,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 3, line 47,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 3, line 53,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Brief Description of the Figures**

**Col. 4, line 25,** "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 4, line 30,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 4, lines 43-44,** delete "In the "Antigenic Index—Jameson-Wolf" graph (boxed graph), the" and insert --The--;

**Col. 4, line 46,** delete "aicds" and insert --acids--;

**Col. 4, lines 46-47,** delete "antigenic index" and insert --"Antigenic Index – Jameson-Wolf"--;

**Under Detailed Description**

**Col. 4, lines 50-63,** delete the entire paragraph and insert the following paragraph.

--The present invention provides isolated nucleic acid molecules comprising a polynucleotide encoding soluble IL-1R AcM polypeptide, having the amino acid sequence shown in FIG. 1A [SEQ ID NO:2], which was determined by sequencing a cloned cDNA. The soluble IL-1R AcM protein of the present invention shares sequence homology with mouse interleukin 1 receptor accessory protein (FIG. 2) [SEQ ID NO:3]. The nucleotide sequence shown in FIGS. 1A-B [SEQ ID NO:1] was obtained by sequencing the HMEEJ22 clone, which was deposited on Jul. 25, 1996 at the American Type Culture Collection, Patent Depository, 10801 University Boulevard, Manassas, VA 20110-2209, and given accession number 97666. The deposited clone is inserted in the pBluescript SK(-) plasmid (Stratagene, La Jolla, Calif.).--;

**Col. 5, line 27,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 5, line 32,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 5, line 35,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 5, line 38,** delete "FIG. 1" and insert --FIGS. 1A-B--;

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**Col. 5, line 43,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 5, line 45,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 5, line 46,** delete "FIG. 2A)" and insert --(FIG. 2A)--;

**Col. 5, line 48,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 5, line 64,** delete "species on" and insert --species of--;

**Col. 6, line 31,** delete "n("PSORr)" and insert --("PSORT")--;

**Col. 6, line 41,** delete "of von Heinje. von Heinje, swra" and insert --of von Heinje. von Heinje, *supra*--;

**Col. 6, line 43,** delete "to about —1 in" and insert --to about -1 in--;

**Col. 7, line 4,** delete "in vivo or in vitro" and insert --*in vivo* or *in vitro*--;

**Col. 7, line 12,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 7, line 14,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 7, line 18,** delete "L-IR" and insert --IL-1R--;

**Col. 7, line 37, after** "(SEQ ID NO:22)." Insert a new paragraph beginning with the sentence -  
-In another aspect, the invention--;

**Col. 7, line 46,** delete "will encode" and insert --which encodes--;

**Col. 7, line 50,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 7, line 55,** delete "in situ" and insert --*in situ*--;

**Col. 8, line 9,** delete "in tended" and insert --intended--;

**Col. 8, line 30,** delete "3070" and insert --30-70--;

**Col. 8, line 40,** delete "11R AcM" and insert --IL-1R AcM--;

**Col. 8, line 42,** delete "resides" and insert --residues--;

**Col. 8, line 50,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 8, line 62,** delete "FIG. 1" and insert --FIG. 1B--;

**Col. 8, line 63,** delete "resides" and insert --residues--;

**Col. 9, line 6,** delete "FIG. 1" and insert --FIG. 1A--;

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**Col. 10, line 7,** delete "natal" and insert --natural--;

**Col. 10, line 27,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 11, line 4,** delete "FIG 1 or to the nucleotides" and insert --FIGS. 1A-B or to the nucleotide--;

**Col. 11, line 9,** delete "53711" and insert --53711)--;

**Col. 11, lines 10-11,** delete "Advances in Applied Mathematics" and insert --*Advances in Applied Mathematics*--;

**Col. 11, line 11,** delete "482489" and insert --482-489--;

**Col. 11, line 17,** delete "fill" and insert --full--;

**Col. 11, line 23,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 11, line 44,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 11, line 56,** delete "an";

**Col. 11, line 63,** delete "AcMare" and insert --AcM are--;

**Col. 11, line 66,** delete "CHO-dhfr" and insert --CHO-dhfr--;

**Col. 11, line 67,** delete "bovine serum 25 mM HEPES, pH 7.0, 0.1 mL" and insert --bovine serum, 25 mM HEPES, pH 7.0, 0.1 mM--;

**Col. 12, line 1,** delete "1xHT" and insert --1X HT--;

**Col. 12, line 2,** delete "Bochringer" and insert --Boehringer--;

**Col. 12, line 3,** delete "1 X" and insert --1X--;

**Col. 12, line 14,** delete "'251-labeled" and insert --<sup>125</sup>I-labeled--;

**Col. 12, line 19,** delete "cells can performed" and insert --cells can be performed--;

**Col. 12, line 26,** delete "IL-1 $\beta$ 0 to a CHO--IR/AcM" and insert --IL-1 $\beta$  to a CHO-IR/AcM--;

**Col. 12, line 30,** delete "IL-1 will bind IL-1 P" and insert --IL-1R will bind IL-1 $\beta$ --;

**Col. 12, line 44,** delete "IL-1>" and insert --IL-1 $\beta$ --;

**Col. 13, line 4,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 13, line 59,** delete "plaids" and insert --plasmids--;

**Col. 14, line 19,** delete "*Spodoplera*" and insert --*Spodoptera*--;

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**Col. 15, line 24,** delete "pat" and insert --part--;

**Col. 15, line 60-61,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 15, line 65,** delete "least to" and insert --least two--;

**Col. 16, line 25,** delete "IL1R" and insert -- IL-1R--;

**Col. 17, line 55,** delete "Le., the mature" and insert --i.e., the mature--;

**Col. 17, line 62,** delete "97/o" and insert 97%--;

**Col. 18, line 20,** delete "96%", second occurrence;

**Col. 18, line 20,** delete "990%" and insert --99%--;

**Col. 18, line 22,** delete "FIG. 1" and insert --FIG. 1A--;

**Col. 20, line 16,** delete "Type IL-1R" and insert --Type I IL-1R--;

**Col. 20, line 21,** delete "with the IL-R" and insert --with the IL-1R--;

**Col. 20, line 26,** delete "to";

**Col. 20, line 27,** delete "to";

**Col. 20, line 43,** delete "complexes" and insert --complex--;

**Col. 20, line 60,** delete "IL-1 P." and insert --IL-1 $\beta$ --;

**Col. 20, line 65,** delete "IL" and insert --IL-1--;

**Col. 20, line 67,** delete "IL-1R" and insert --IL-1ra--;

**Col. 21, line 15,** delete "immuno precipitating" and insert --immunoprecipitating--;

**Col. 21, line 19,** delete "IL-1 P" and insert --IL-1 $\beta$ --;

**Col. 22, line 3,** delete "ences" and insert --enhances--;

**Col. 22, line 23,** delete "act" and insert --fact--;

**Col. 22, line 29,** delete "to animal" and insert --to an animal--;

**Col. 23, line 1,** delete "101  $\mu$ /l" and insert --10  $\mu$ g/l--;

**Col. 23, line 44,** delete "humnsized" and insert --humanized--;

**Col. 23, line 66,** delete "131I" and insert --<sup>131</sup>I--;

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**Col. 32, line 67,** delete "47Sc" and insert --<sup>47</sup>Sc--;

**Col. 24, line 13,** delete "55Mn" and insert --<sup>55</sup>Mn--;

**Col. 25, line 41,** delete "regulation liver" and insert --regulation of liver--;

**Col. 25, line 48,** delete "hat" and insert --that--;

**Col. 26, line 43,** delete "IL 1" and insert --IL-1--;

**Col. 26, line 45,** delete "IL1" and insert --IL-1--;

**Col. 28, line 1,** delete "appear" and insert --appears--;

**Col. 28, line 8,** delete " $10^9\text{M}^{-1}$ , more preferably" and insert -- $10^8\text{M}^{-1}$ , more preferably--;

**Col. 28, line 34,** delete "GGATCCATGACACTTCTGTGGTGTG" and insert --GGATCCATGACACTTCTGTGGTGTG--;

**Col. 28, line 38,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 28, lines 39-40,** delete "GTCACTGACCGCATCT" and insert --GTCGACTCACTGACCGCATCT--;

**Col. 28, line 43,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 28, line 64,** delete "resisce" and insert --resistance--;

**Col. 29, line 49,** delete "Retrovinises" and insert --Retroviruses--;

**Col. 29, line 57,** delete "cell's" and insert --cells--;

**Col. 29, line 58,** delete "NIH3" and insert --NIH3T3--;

**Col. 30, lines 60-61,** delete "GGATCCATCCGCCATCATGACACTTCTGTGGTGTG" and insert --GGATCCATCCGCCATCATGACACTTCTGTGGTGTG--;

**Col. 30, lines 66-67,** delete "TCTAGAGCGTAGTCTGGGACGTCGTATGGGTACTGACCGCATCT" and insert --TCTAGAAAAGCGTAGTCTGGGACGTCGTATGGGTACTGACCGCATCT--;

**Col. 31, line 4,** delete "Stratagehe" and insert --Stratagene--;

**Col. 31, line 24,** delete "135 cysteine" and insert --<sup>35</sup>S-cysteine--;

**Col. 31, line 24,** delete "washed and the" and insert --washed and then--;

**Col. 32, line 7,** delete "B-actin" and insert -- $\beta$ -actin--;

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**Col. 32, line 19,** delete "phosphates" and insert --phosphatase--;

**Col. 32, lines 24-25,** delete "GACTGGATCCGCCATCATGACACTTCTGTGGTGTG" and insert --GACTGGATCCGCCATCATGACACTTCTGTGGTGTG--;

**Col. 32, lines 27-28,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 32, line 35,** delete "GAATTCCTCACTGACCGCATCT" and insert --GAATTCCTCACTGACCGCATCT--;

**Col. 32, line 39,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 32, line 52,** delete "transfection 5µg" and insert --transfection. 5µg--;

**Col. 32, line 68,** delete "mM" and insert --µM--;

**Col. 33, line 1,** delete "mM" and insert -- µM--;

**Col. 33, lines 13-14,** delete "GAGATCCATATGACACTTCTGTGGTGTG" and insert --GACTGGATCCGCCATCATGACACTTCTGTGGTGTG--;

**Col. 33, lines 17-18,** delete "FIG 1. (SEQ ID) NO: 1" and insert --FIGS. 1A-B (SEQ ID NO:1)--;

**Col. 33, lines 22-23,** delete "J. Mol. Biol." and insert --*J. Mol. Biol.*--;

**Col. 33, line 24,** delete "of the construct For" and insert --of the construct. For--;

**Col. 33, line 24,** begin new paragraph with "For the full";

**Col. 33, line 25,** delete "fill" and insert --full--;

**Col. 33, line 26,** delete "GAC TGG TAC CCA TAG AAA TCA TGT GTA TAC C<sub>3</sub>" and insert --GAC TGG TAC CCA TAG AAA TCA TGT GTA TAC C 3'--;

**Col. 33, line 30,** delete "FIG. 1" and insert --FIGS. 1A-B--;

**Col. 33, line 33,** delete "figment" and insert --fragment--;

**Col. 33, line 65,** delete "BO 1101" and insert --BIO 101--;

**Col. 34, line 63,** delete "MCi" and insert --µCi--;

**Col. 35, line 9,** delete "<sup>33</sup>P" and insert --<sup>32</sup>P--;

**Col. 35, line 11,** delete "manufactur's" and insert --manufacturer's--;

**Col. 35, line 14,** delete "manufacturers" and insert -- manufacturer's--;

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**Under What is claimed is:**

**Claim 1, line 3,** delete "acids—17" and insert --acids -17--;

**Claim 1, line 5,** delete "acids—16" and insert --acids -16--;

**Claim 1, line 16,** delete "97666: and" and insert --97666; and--;

**Claim 5, line 1,** delete "claim 1," and insert --claim 4,--;

**Claim 13, line 3,** delete "acids—17" and insert --acids -17--;

**Claim 13, lines 5-6,** delete "acids—16 to 339 of SEQ 1) NO:2," and insert --acids -16 to 339 of SEQ ID NO:2;--;

**Claim 32, line 2,** delete "claim operatively" and insert --claim 1 operatively--; and

**Claim 36, line 1,** delete "comprises the" and insert --comprises culturing the--.

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